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1 Software radio system design for accessing wireless multimedia services


Ming-Chung Tang, R. C. Chang, Wei-Kuan Shih

 January 2001 **Information processing and technology**
Publisher: Nova Science Publishers, Inc.

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a software engineer's perspective for the design and implementation of a software radio (SWR) system. The key technical challenge that we want to address is the architecture design of a software radio system and the QoS control for multimedia processing in this architecture. We propose the *component-binding* based software radio architecture and the *QoS-controllable* scheduling mechanism (QSM) in this paper. The *component-binding* based software radio archi ...

Keywords: GSM, PCS, QoS-controllable, component-binding, imprecise computation, real-time OS, software radio, wireless multimedia services

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